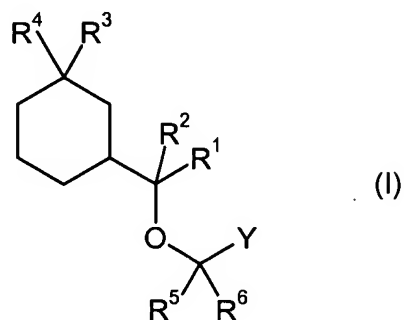


What is claimed is:

1. Compounds of the formula (I)



where

$R^1 = \text{CH}_3$ ,  $R^3 = \text{H or CH}_3$  and  $R^2$  and  $R^4 = \text{H}$ ,

$R^5$  and  $R^6$  – independently of one another – are H or  $\text{CH}_3$  and

$Y = -\text{CR}^7\text{R}^8\text{OCOR}^9$ , where  $R^7$  and  $R^8$  – independently of one another – are H or  $\text{CH}_3$  and

$R^9$  is a branched or straight-chain  $\text{C}_1$  to  $\text{C}_5$  alkyl group or a branched or straight-chain  $\text{C}_2$  to  $\text{C}_5$  alkylene group,

or

$R^1$  and  $R^2$  – independently of one another – are  $\text{CH}_3$  or  $\text{CH}_2\text{CH}_3$ ,

$R^3$  and  $R^4$  – independently of one another – are H or  $\text{CH}_3$ ,

$R^5$  and  $R^6$  together are oxygen and

$Y = -CR^7R^8OCOR^9$  or  $R^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the abovementioned meaning,

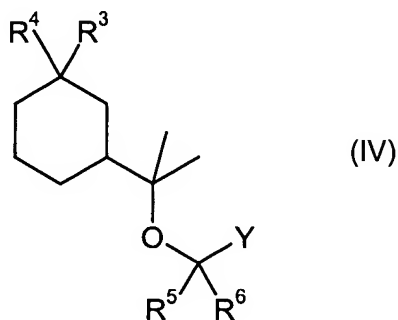
or

$R^1$  and  $R^2$  – independently of one another – are  $CH_3$  or  $CH_2CH_3$ ,

$R^3$ ,  $R^4$ ,  $R^5$  and  $R^6$  – independently of one another – are H or  $CH_3$  and

$Y = -CR^7R^8OCOR^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the abovementioned meaning.

2. Compounds according to Claim 1 of the formula (IV)



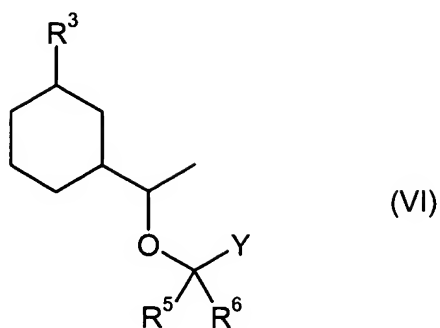
where

$R^3$  and  $R^4$  – independently of one another – are H or  $CH_3$ ,  $R^3$  and  $R^4$  = methyl being preferred

$R^5$  and  $R^6$  together are hydrogen, and

$Y = -CR^7R^8OCOR^9$  or  $R^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the meaning given in Claim 1, where  $Y$  = methyl, ethyl or n-propyl, and also  $Y = -CR^7R^8OCOR^9$ , where  $R^7$  and  $R^8$  = H and  $R^9$  = methyl, ethyl or n-propyl is preferred.

3. Compounds according to Claim 1 of the formula (VI)



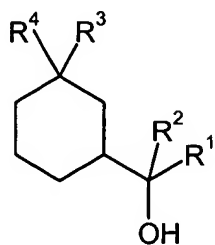
where

$R^3 = \text{H or } \text{CH}_3$ ,

$R^5$  and  $R^6$  – independently of one another – are H or  $\text{CH}_3$ , where  $R^5$ ,  $R^6 = \text{methyl}$  is preferred, and

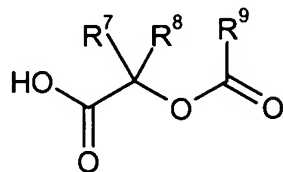
$Y = -\text{CR}^7\text{R}^8\text{OCOR}^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the meaning given in Claim 1, where  $R^7$  and  $R^8 = \text{H}$  and  $R^9 = \text{methyl, ethyl or n-propyl}$  is preferred.

4. Compounds according to Claim 1, characterized in that they are 2-(1-cyclohexylethoxy)-2-methylpropyl propionate, 2-[1-(3,3-dimethylcyclohexyl)-1-methylethoxy]-2-oxoethyl propionate or 2-[1-(3,3-dimethylcyclohexyl)-1-methylethoxy]-2-oxoethyl acetate.
5. Method for the preparation of compounds according to one of Claims 1 to 4 by reaction of substituted cyclohexylalkanols of the formula



with

- a) carboxylic acids of the formula



where

$\text{R}^1$  and  $\text{R}^2$  – independently of one another – are  $\text{CH}_3$  or  $\text{CH}_2\text{CH}_3$ ,

$\text{R}^3$  and  $\text{R}^4$  – independently of one another – are H or  $\text{CH}_3$ ,

$\text{R}^5$  and  $\text{R}^6$  together are hydrogen and

$\text{Y} = -\text{CR}^7\text{R}^8\text{OCOR}^9$  where  $\text{R}^7$ ,  $\text{R}^8$  and  $\text{R}^9$  have the meaning given in Claim 1,

or

- b) carboxylic acids  $\text{R}^9\text{-COOH}$  or carboxylic anhydrides  $(\text{R}^9\text{-CO})_2\text{O}$

where

$\text{R}^1$  and  $\text{R}^2$  – independently of one another – are  $\text{CH}_3$  or  $\text{CH}_2\text{CH}_3$ ,

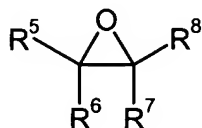
$\text{R}^3$  and  $\text{R}^4$  – independently of one another – are H or  $\text{CH}_3$ ,

$\text{R}^5$  and  $\text{R}^6$  together are oxygen, and

$\text{Y} = \text{R}^9$  and  $\text{R}^9$  has the meaning given in Claim 1,

or

c) epoxides of the formula



where

$R^1 = \text{CH}_3$ ,  $R^3 = \text{H}$  or  $\text{CH}_3$  and  $R^2$  and  $R^4 = \text{H}$ ,

$R^5$  and  $R^6$  – independently of one another – are H or  $\text{CH}_3$  and

$Y = -\text{CR}^7\text{R}^8\text{OCOR}^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the abovementioned meaning,

or

$R^1$  and  $R^2$  – independently of one another – are  $\text{CH}_3$  or  $\text{CH}_2\text{CH}_3$ ,

$R^3$ ,  $R^4$ ,  $R^5$  and  $R^6$  – independently of one another – are H or  $\text{CH}_3$ , and

$Y = -\text{CR}^7\text{R}^8\text{OCOR}^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the meaning given in Claim 1,

or

d) a carboxylic acid  $\text{XCR}^7\text{R}^8\text{-COOH}$  or a carboxylic anhydride  $(\text{XCR}^7\text{R}^8\text{-CO})_2\text{O}$  in a first step and with  $\text{R}^9\text{-COOZ}$  or  $(\text{R}^9\text{-CO})_2\text{O}$  in a second step

where

$R^1$  and  $R^2$  – independently of one another – are  $CH_3$  or  $CH_2CH_3$ ,

$R^3$  and  $R^4$  – independently of one another – are H or  $CH_3$ ,

$R^5$  and  $R^6$  together are oxygen, and

$Y = -CR^7R^8OCOR^9$ , where  $R^7$ ,  $R^8$  and  $R^9$  have the meaning given in Claim 1,

$X$  = halogen or OH,

$Z$  = alkali metal or H.

6. Use of compounds according to one of Claims 1 to 4 as fragrances.
7. Fragrance mixtures containing compounds according to one of Claims 1 to 4.
8. Perfumed products containing compounds according to one of Claims 1 to 4.